PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-133053
(43)Date of publication of application : 18.05.2001

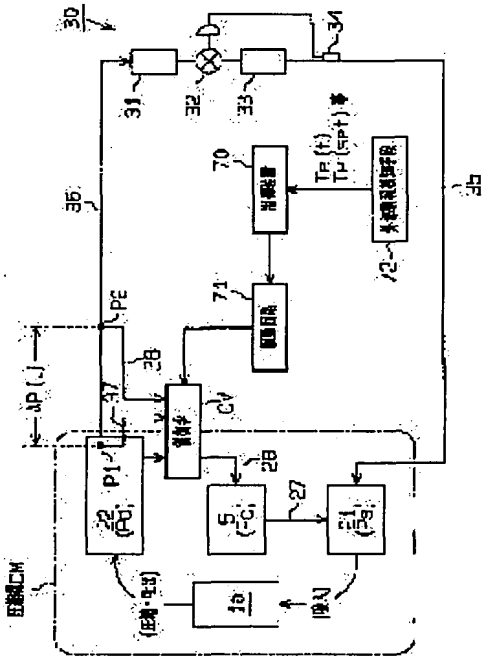
(51)Int.Cl. F25B 1/00
B60H 1/32
F25B 41/06
// F04B 27/14

(21)Application number : 11-311640
(22)Date of filing : 01.11.1999

(71)Applicant : TOYOTA AUTOM LOOM WORKS LTD
(72)Inventor : MIZUFUJI TAKESHI
KAWAGUCHI MASAHIRO
OTA MASAKI
KURAKAKE HIROTAKA

(54) AIR CONDITIONER

(57)Abstract:
PROBLEM TO BE SOLVED: To obtain an air conditioner having a refrigerant circulation circuit including a variable capacity compressor in which a high cooling efficiency can be sustained while ensuring oil return to a compressor even when the flow rate of refrigerant decreases in correspondence with low cooling load.
SOLUTION: The refrigerant circulation circuit of an air conditioner comprises a condenser 31, an expansion valve 32, an evaporator 33, and a variable capacity compressor CM wherein the expansion valve 32 is a normal charge system expansion valve. A control valve CV regulates the inner pressure Pc of a crank chamber 5 based on the differential pressure ΔP(t) between two pressure monitoring points P1, P2 set in the refrigerant circulation circuit and conduction control through a controller 70 thus controlling the delivery capacity of the compressor CM and the flow rate of refrigerant in the refrigerant circulation circuit.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]